1/6

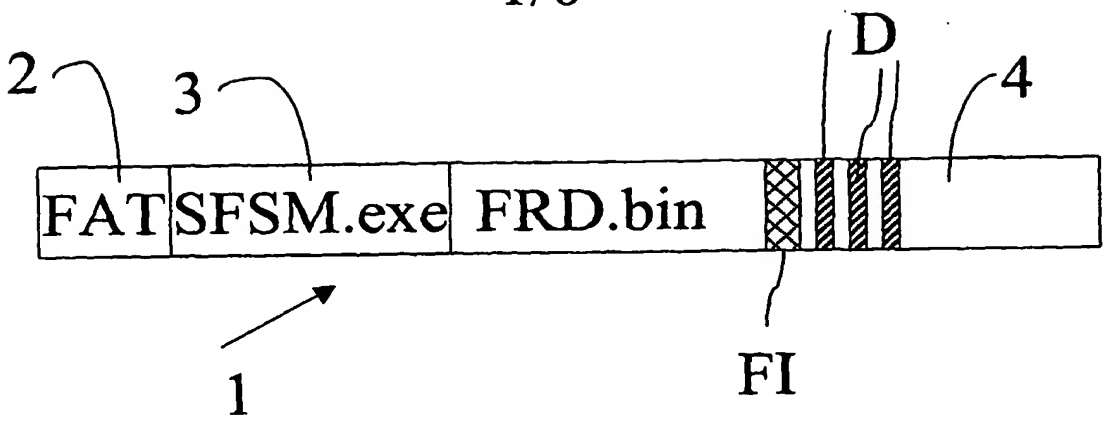

FIG.1A

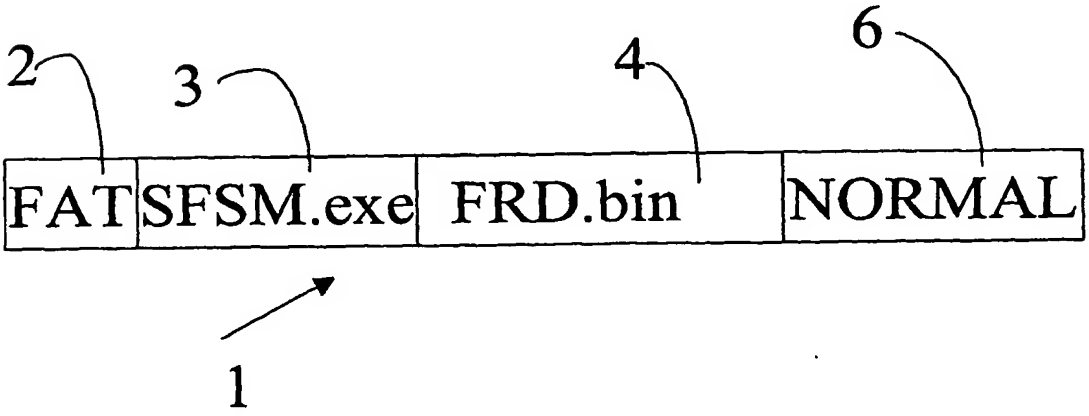

FIG.1C

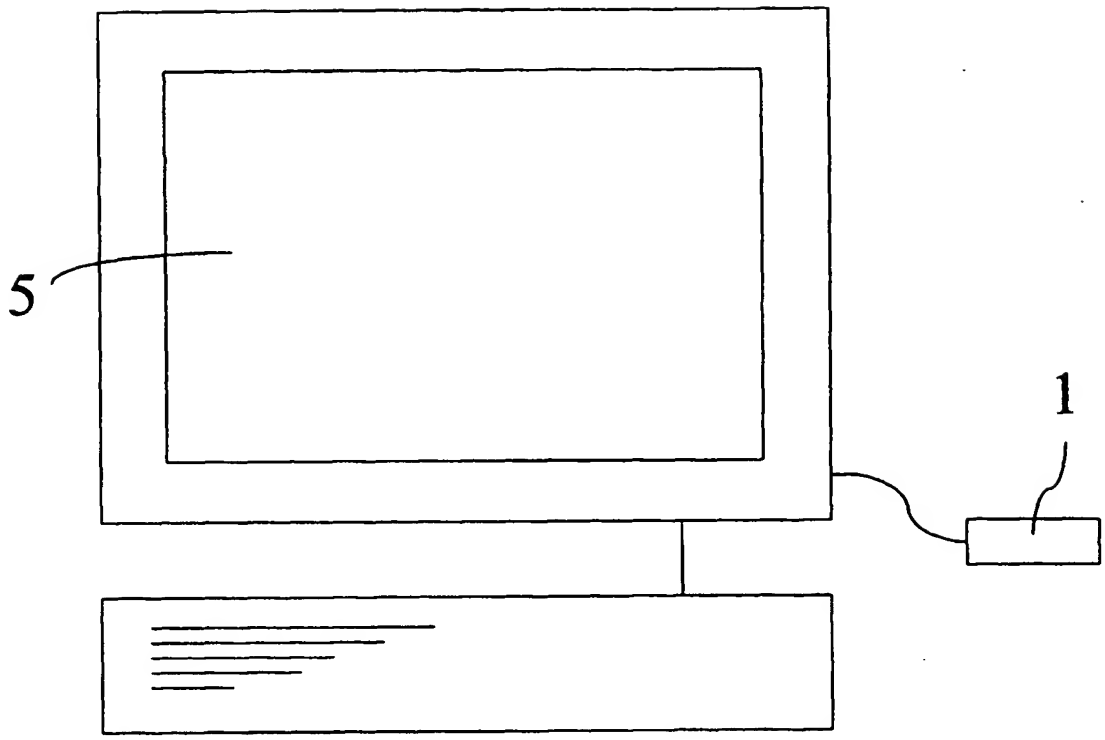

FIG. 1B

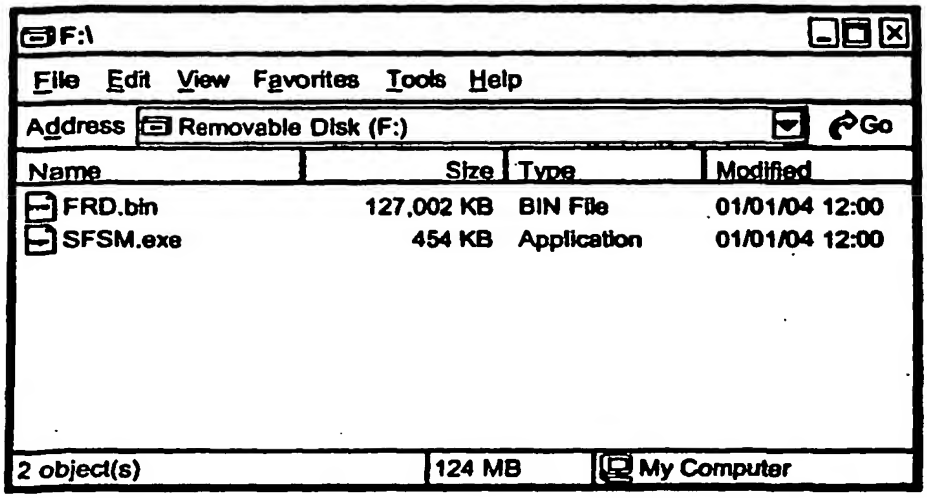
F:\
File Edit View Favorites Tools Help
Address Removable Disk (F:)
Go
Name
Size
Type
Modified
FRD.bin
127,002 KB
BIN File
01/01/04 12:00
SFSM.exe
454 KB
Application
01/01/04 12:00
2 object(s)
124 MB
My Computer

FIG. 2

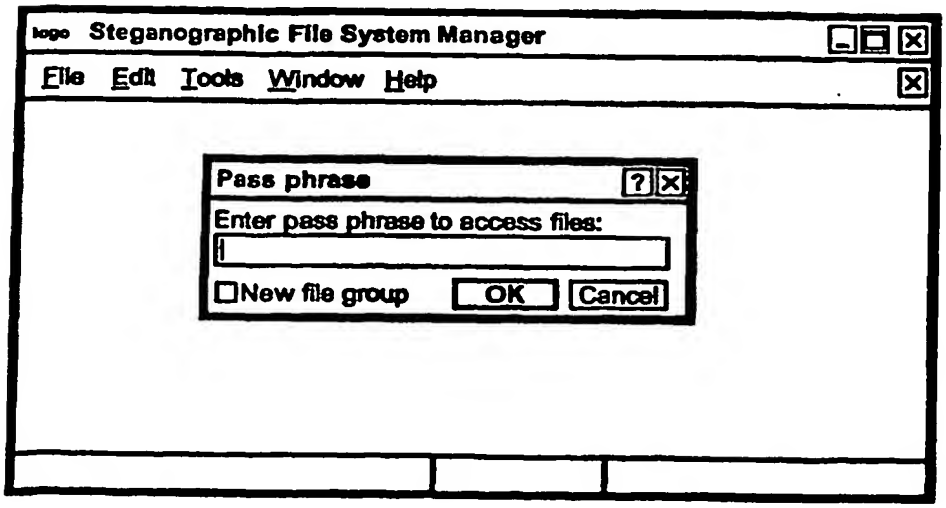
Steganographic File System Manager
File Edit Tools Window Help
Pass phrase
Enter pass phrase to access files:
New file group
OK
Cancel

FIG. 3

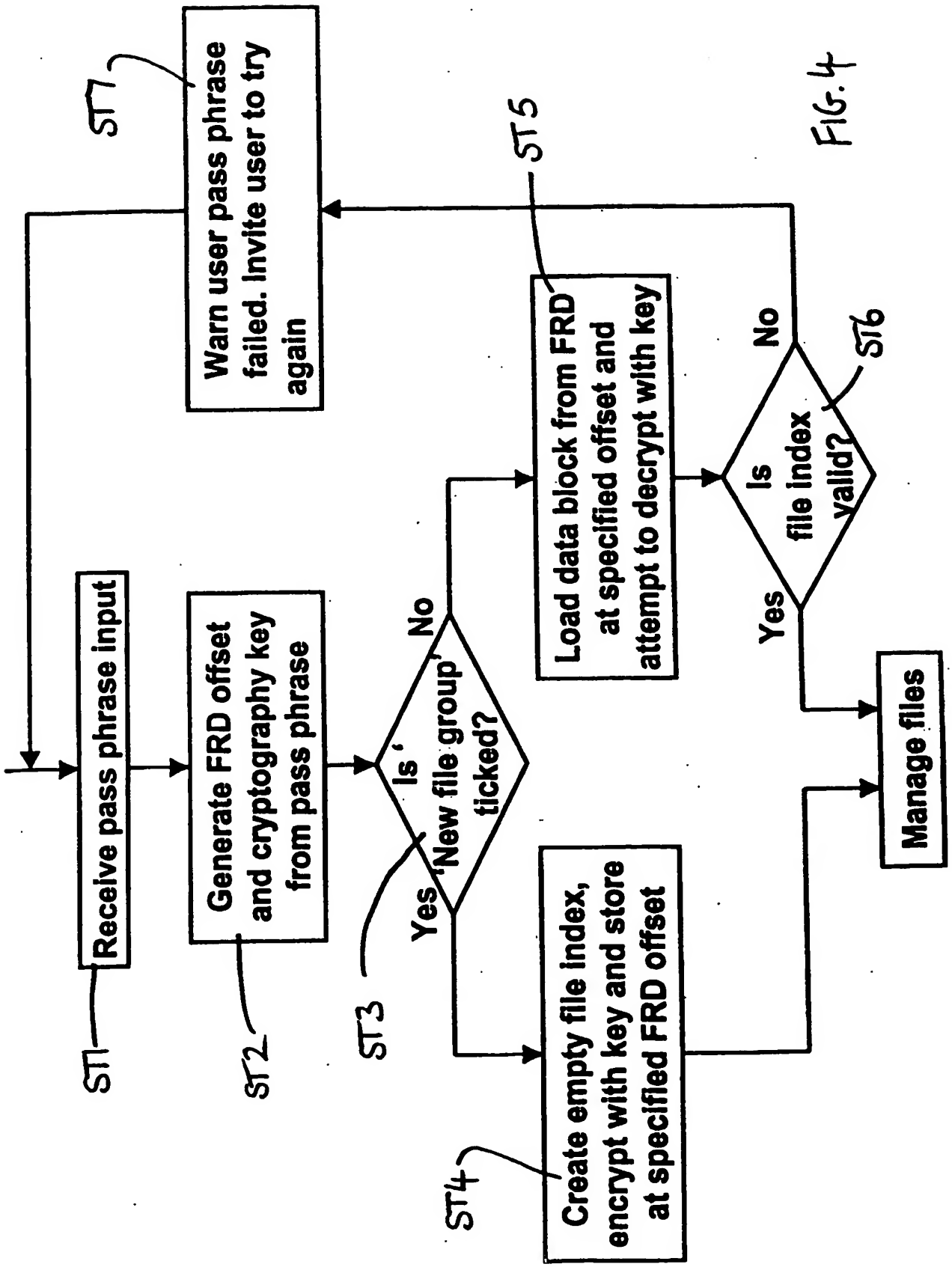
Receive pass phrase input
Generate FRD offset and cryptography key from pass phrase
Is 'New file group' ticked?
No
Yes
Load data block from FRD at specified offset and attempt to decrypt with key
Is file index valid?
No
Yes
Warn user pass phrase failed. Invite user to try again
Create empty file index, encrypt with key and store at specified FRD offset
Manage files
ST1
ST2
ST3
ST4
ST5
ST6
ST7

FIG. 4

File	Edit	Tools	Window	Help
New file group...	Copy decrypted	Options...	Tile	Index
Open file group...	Copy encrypted	Utilities...	Cascade	About
Close file group	Paste		1st file group	
Properties...	Paste Special...			
Select FRD...	Delete (randomise)			
Deselect FRD	Delete (de-allocate)			
Exit				

FIG. 5

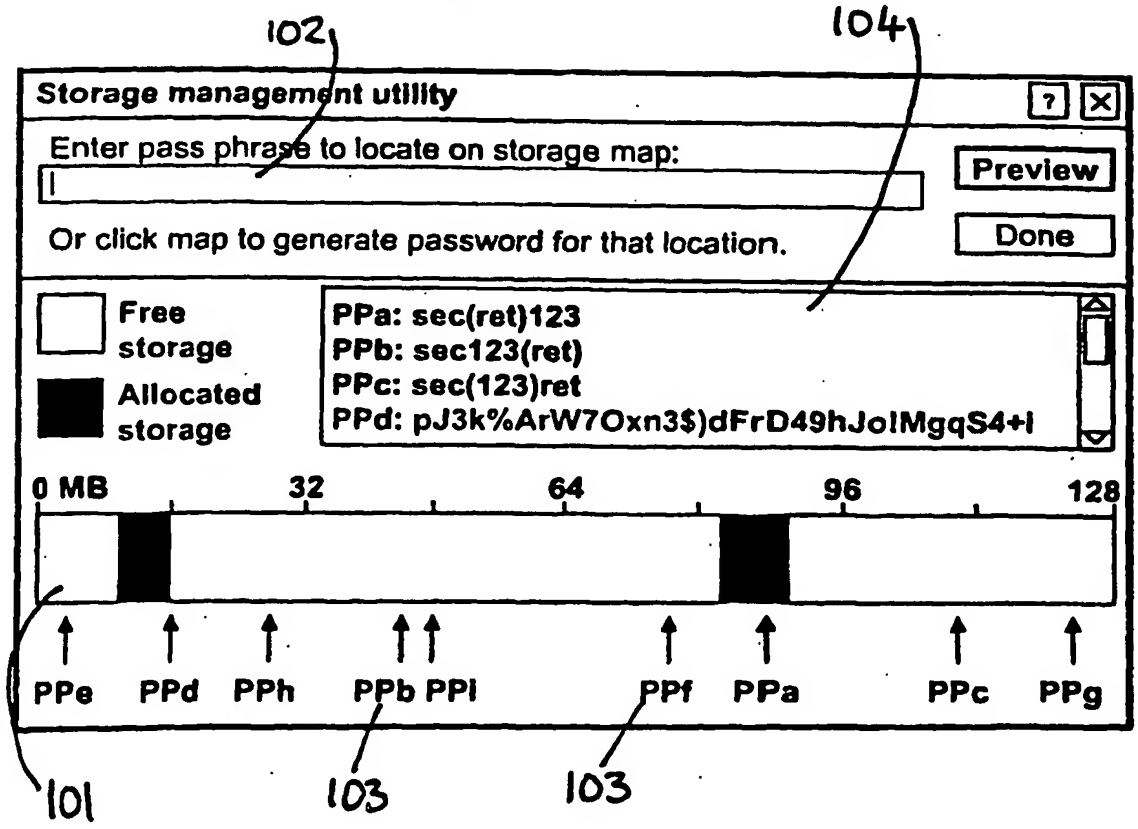

FIG. 7

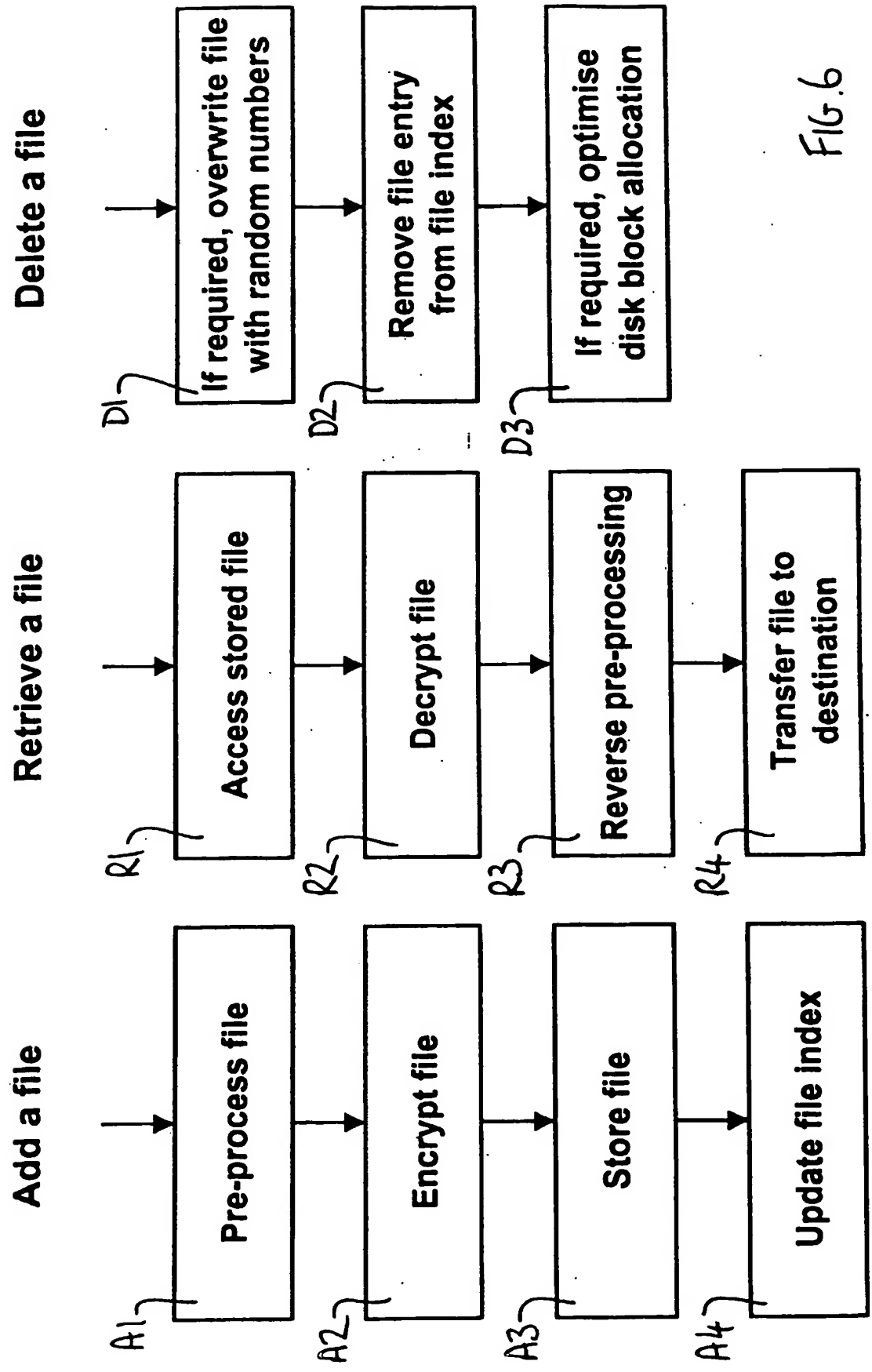
Add a file
Pre-process file
Encrypt file
Store file
Update file index
A1
A2
A3
A4
Retrieve a file
Access stored file
Decrypt file
Reverse pre-processing
Transfer file to destination
R1
R2
R3
R4
Delete a file
If required, overwrite file with random numbers
Remove file entry from file index
If required, optimise disk block allocation
D1
D2
D3

FIG. 6